

WHAT IS CLAIMED IS:

1 1. For use in a base station of a wireless network, a call
2 control processor comprising:

3 a first state machine capable of performing a call
4 processing task, said first state machine comprising a queue
5 capable of storing a plurality of events associated with said
6 call processing task, each of said plurality of events operable
7 to cause said first state machine to perform a selected action,
8 wherein said first state machine is capable of communicating
9 with a second state machine of said call control processor by
10 storing at least one event in a queue associated with said
11 second state machine.

1 2. The call control processor set forth in Claim 1 wherein
2 said queue of said first state machine is capable of receiving
3 an incoming event from said second state machine.

1 3. The call control processor set forth in Claim 1 wherein
2 said first state machine executes said task in response to
3 receipt of a message retrieved from an operating system (O/S)
4 queue associated with said first state machine.

1 4. The call control processor set forth in Claim 1 wherein
2 said first state machine executes said task in response to
3 receipt of a ping message generated by said call control
4 processor.

1 5. The call control processor set forth in Claim 4 wherein
2 said ping message is received on a periodic basis.

1 6. The call control processor set forth in Claim 1 wherein
2 said first state machine further comprises an array capable of
3 translating an event associated with said first state machine
4 into a corresponding event associated with said second state
5 machine.

1 7. The call control processor set forth in Claim 1 wherein
2 said first state machine further comprises a linked list capable
3 of translating an event associated with said first state machine
4 into a corresponding event associated with said second state
5 machine.

1 8. The call control processor set forth in Claim 1 wherein
2 said first state machine further comprises an array and a linked
3 list capable of translating an event associated with said first
4 state machine into a corresponding event associated with said
5 second state machine.

1 9. A wireless network comprising:

2 a plurality of base stations capable of communicating
3 with a plurality of mobile stations located in a coverage area
4 of said wireless network, each of said plurality of base
5 stations comprising:

6 a plurality of RF transceivers, each of said RF
7 transceiver capable of transmitting at least one of voice
8 signals and data signals in a forward channel to a selected one
9 of said plurality of mobile stations and capable of receiving at
10 least one of voice signals and data signals in a reverse channel
11 from said selected mobile station; and

12 a call control processor capable of controlling said
13 plurality of RF transceivers, said call control processor
14 comprising a first state machine capable of performing a call
15 processing task, said first state machine comprising a queue
16 capable of storing a plurality of events associated with said
17 call processing task, each of said plurality of events operable
18 to cause said first state machine to perform a selected action,
19 wherein said first state machine is capable of communicating
20 with a second state machine of said call control processor by
21 storing at least one event in a queue associated with said

22 second state machine.

1 10. The wireless network set forth in Claim 9 wherein said
2 queue of said first state machine is capable of receiving an
3 incoming event from said second state machine.

1 11. The wireless network set forth in Claim 9 wherein said
2 first state machine executes said task in response to receipt of
3 a message retrieved from an operating system (O/S) queue
4 associated with said first state machine.

1 12. The wireless network set forth in Claim 9 wherein said
2 first state machine executes said task in response to receipt of
3 a ping message generated by said call control processor.

1 13. The wireless network set forth in Claim 12 wherein said
2 ping message is received on a periodic basis.

1 14. The wireless network set forth in Claim 9 wherein said
2 first state machine further comprises an array capable of
3 translating an event associated with said first state machine
4 into a corresponding event associated with said second state
5 machine.

1 15. The wireless network set forth in Claim 9 wherein said
2 first state machine further comprises a linked list capable of
3 translating an event associated with said first state machine
4 into a corresponding event associated with said second state
5 machine.

1 16. The wireless network set forth in Claim 9 wherein said
2 first state machine further comprises an array and a linked list
3 capable of translating an event associated with said first state
4 machine into a corresponding event associated with said second
5 state machine.

1 17. For use in a base station in a wireless network, a
2 method of operating a call control processor comprising the
3 steps of:

4 retrieving from an internal queue associated with a
5 first state machine of the call control processor a stored event
6 capable of causing the first state machine to perform an action;

7 generating from the stored event at least one resultant
8 event;

9 determining if a second state machine of the call
10 control processor utilizes the at least one resultant event;

11 translating the at least one resultant event into a
12 corresponding event associated with the second state machine;
13 and

14 storing the corresponding event in an internal queue
15 associated with the second state machine for subsequent
16 execution by the second state machine.

1 18. The method set forth in Claim 15 wherein the first
2 state machine comprises an array used to perform the step of
3 translating.

